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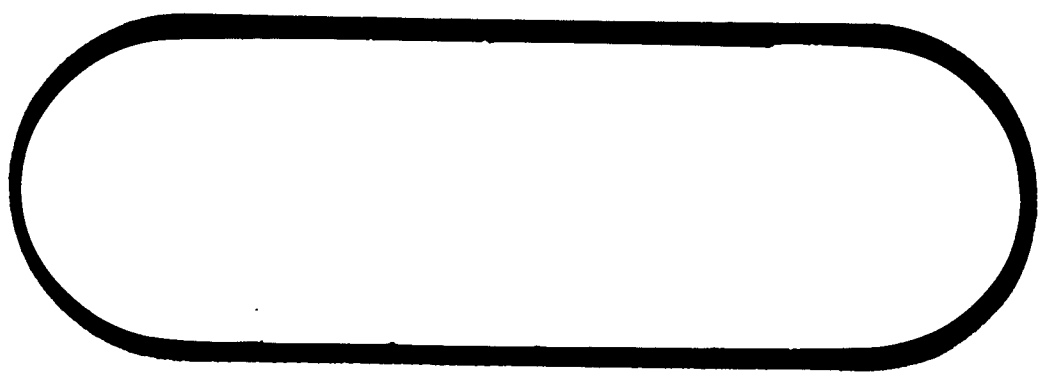
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NUMBER D2-13947-2TITLE AIR FORCE PLANT 77 FLIGHT ARTICLE MASS PROPERTIES
REPORT FOR WING II MISSILES 648 - 669.MODEL NO. SM-80 B CONTRACT NO. AF 04 (694)-46ISSUE NO. 14 ISSUED TO ASTIA

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SUMMARY

This document is prepared in accordance with B&D Exhibit 62-110 dated 3 August 1962, "Missile Assembly Facility Requirements for Mass Properties Data." It contains the actual sealant weight and balance summary for Wing II missiles, the weight effect of all changes incorporated at Plant 77 not reported in D2-13946-X, and a configuration page for each missile included in this report.

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1.0 INTRODUCTION

1.1 REFERENCES

1.1.1 OCM 258 to AF 64(647)-580

1.1.2 RMD Exhibit 62-110 dated 3 August 1962, Missile Assembly Facility Requirements for Mass Properties Data.

1.1.3 Boeing Document D2-13946-X, "Flight Article Mass Properties Report for Minuteman Wing II Components".

1.2 DISCUSSION

This Mass Properties Report is presented in accordance with Section 3.2 reference 1.1.2.

Section 2.1 lists the actual weight and balance summary of Boeing sealant added at Plant 77.

Section 2.2 of the report lists the weight and balance of Astronetics sealant added at Plant 77.

Section 3.0 lists all the Boeing responsibility changes incorporated in the missile at time of delivery, not reported in reference 1.1.3.

Section 4.0 contains Configuration Summaries listing the serial numbers of major components for missiles included in this report.

2.1.1 WEIGHT AND BALANCE SUMMARY •					REPORT NO. <u>D2-13947-2</u>					
BOEING SEALANT INSTALLED AT AF PLANT 77					DATE <u>June 1, 1963</u>					
MISSILE S/N 63-190 (648)					CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3		
LINE	Q	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.97	91.7	109.3	116.2		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.00	59.8	100.8	105.1		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.15		58.9	97.8	103.1		
22	45	Interstage 2-3			.49	80.9	107.0	111.9		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.46	115.9	110.2	117.6		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.63	65.1	102.7	109.0		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.81		67.1	99.6	107.8		
37	47	Interstage 1-2			1.06	95.9	109.4	115.2		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.62	198.6	113.1	122.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.01	65.1	106.6	108.8		
45			Silo							
46			Aero							
47			Base							
48	MISSILE				1524					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
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2.1.2 WEIGHT AND BALANCE SUMMARY *						REPORT NO. <u>D2-13947-2</u>				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE <u>June 1, 1963</u>				
MISSILE S/N <u>63-191 (653)</u>						CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
NO.	QTY	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.89	92.3	109.7	117.0		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.61	60.2	100.3	105.1		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.85		60.1	96.8	102.6		
22	45	Interstage 2-3			.50	80.6	106.6	111.2		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.85	131.0	107.9	113.7		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			3.16	66.0	102.8	108.4		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	2.04		69.4	98.9	105.5		
37	47	Interstage 1-2			.84	97.2	109.8	116.4		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			3.07	224.4	110.5	118.1		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			4.31	65.5	103.8	105.3		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			17.23					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
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2.1.3 WEIGHT AND BALANCE SUMMARY •						REPORT NO. <u>D2-13947-2</u>				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE <u>June 1, 1963</u>				
MISSILE S/N <u>63-192 (655)</u>						CENTER OF GRAVITY			INERTIA	
LINE	SS	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	SLUG FT ² x10 ⁻³	ROLL PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.98	100.4	107.8	113.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.58	59.0	100.2	104.6		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.98		58.7	97.6	102.6		
22	45	Interstage 2-3			.50	80.7	106.8	111.6		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.47	122.2	109.1	115.9		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.64	63.9	104.5	111.0		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.80		65.3	101.9	110.2		
37	47	Interstage 1-2			.67	99.3	111.7	119.8		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.79	202.7	112.6	121.8		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.00	63.2	106.1	108.8		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			15.63					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
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2.1.4 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE S/N 63-182 (638)						REPORT NO. <u>D2-13947-2</u> DATE <u>June 1, 1963</u>				
LINE	SS	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer		1						
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			.44	123.6	103.6	105.8		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.13	61.9	99.3	103.0		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.45		60.6	95.0	100.1		
22	45	Interstage 2-3			.22	75.0	100.0	100.0		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			.81	172.6	101.3	102.2		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.20	66.8	102.7	107.6		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.27		71.1	97.2	103.8		
37	47	Interstage 1-2			.45	86.4	99.3	97.6		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			.73	296.5	100.2	100.4		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			1.95	62.7	101.6	102.6		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			8.93					
49			Silo							
50			Aero							
51			Base							
52			Jett							

•Boeing Section Stations (See Missile Diagram)
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2.1.5 WEIGHT AND BALANCE SUMMARY *					REPORT NO. <u>D2-13947-2</u>				
BOEING SEALANT INSTALLED AT AF PLANT 77					DATE <u>June 1, 1963</u>				
MISSILE S/N 63-193 (660)					CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	ROLL	PITCH
1 41	RV Spacer								
2		Silo							
3		Aero							
4 39	1st Stage Section								
5		Silo							
6		Aero							
7 42	G&C Section								
8		Silo							
9		Aero							
10 44	3rd Stage Engine			.93	95.5	109.2	115.9		
11		Silo							
12		Aero							
13		Base							
14 45	Interstage 2-3			1.41	59.6	100.6	104.7		
15	(Fwd)	Silo							
16		Aero							
17		Base							
18		Silo							
19	Jettisoned	Aero							
20	Portion	Base							
21		Jett	1.71		59.7	97.2	101.7		
22 45	Interstage 2-3			.28	80.6	107.0	112.1		
23	(Aft)	Silo							
24		Aero							
25 46	2nd Stage Engine			2.24	123.6	109.0	115.6		
26		Silo							
27		Aero							
28		Base							
29 47	Interstage 1-2			2.20	65.7	103.1	109.8		
30	(Fwd)	Silo							
31		Aero							
32		Base							
33		Silo							
34	Jettisoned	Aero							
35	Portion	Base							
36		Jett	1.47		68.4	100.5	109.1		
37 47	Interstage 1-2			1.22	94.9	107.7	113.2		
38	(Aft)	Silo							
39		Aero							
40 48	1st Stage Engine			2.90	210.4	111.7	120.1		
41		Silo							
42		Aero							
43		Base							
44 49	Skirt			3.26	63.2	107.2	109.9		
45		Silo							
46		Aero							
47		Base							
48	MISSILE			15.44					
49		Silo							
50		Aero							
51		Base							
52		Jett							

*Boeing Section Stations (See Missile Diagram)
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2.1.6 WEIGHT AND BALANCE SUMMARY •						REPORT NO. D2-13947-2				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE				
MISSILE 8/N 63-194 (662)						June 1, 1963				
LINE	QTY	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.14	97.3	108.4	114.7		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.58	61.3	99.1	104.6		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	1.80		61.0	95.2	102.2		
22	45	Interstage 2-3			.38	82.4	109.6	116.6		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.80	119.9	109.7	116.8		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.95	66.5	102.6	108.6		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.92		69.1	98.7	106.3		
37	47	Interstage 1-2			1.02	94.8	107.9	113.2		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.61	199.6	112.4	121.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			2.40	62.9	105.9	108.6		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			14.88					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
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21.7 WEIGHT AND BALANCE SUMMARY *						REPORT NO. <u>D2-13947-2</u>				
BOEING SEALANT INSTALLED AT AF PLANT 77						DATE <u>June 1, 1963</u>				
MISSILE S/N 63-195 (667)						CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
		DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTL1 Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.08	96.2	108.6	115.0		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			3.57	58.4	99.3	102.8		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	2.89		58.5	97.5	101.3		
22	45	Interstage 2-3			.36	82.2	109.2	115.9		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.09	122.5	109.1	115.7		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			2.92	65.8	105.0	111.5		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	1.77		67.5	100.5	108.9		
37	47	Interstage 1-2			.76	99.2	112.0	120.2		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			3.01	194.4	112.6	121.8		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			3.38	65.0	106.0	107.6		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			17.17					
49			Silo							
50			Aero							
51			Base							
52			Jett							

*Boeing Section Stations (See Missile Diagram)
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2.1.8 WEIGHT AND BALANCE SUMMARY • BOEING SEALANT INSTALLED AT AF PLANT 77 MISSILE 8/N 63-196 (669)					REPORT NO. <u>D2-13947-2</u> DATE <u>June 1, 1963</u>				
STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
					LONG. •	LAT.	VERT.	ROLL	PITCH
1	41 RV Spacer								
2		Silo							
3		Aero							
4	32 CTLI Section								
5		Silo							
6		Aero							
7	43 G&C Section								
8		Silo							
9		Aero							
10	44 3rd Stage Engine			0.89	94.8	109.7	116.4		
11		Silo							
12		Aero							
13		Base							
14	45 Interstage 2-3 (Fwd)			2.84	60.7	99.8	104.5		
15		Silo							
16		Aero							
17		Base							
18		Silo							
19	Jettisoned Portion	Aero							
20		Base							
21		Jett	1.90		60.3	95.4	101.0		
22	45 Interstage 2-3 (Aft)			0.96	79.1	104.3	107.2		
23		Silo							
24		Aero							
25	46 2nd Stage Engine			1.56	139.6	106.9	111.9		
26		Silo							
27		Aero							
28		Base							
29	47 Interstage 1-2 (Fwd)			2.60	65.8	103.0	109.9		
30		Silo							
31		Aero							
32		Base							
33		Silo							
34	Jettisoned Portion	Aero							
35		Base							
36		Jett	1.58		69.2	98.6	108.0		
37	47 Interstage 1-2 (Aft)			.83	96.5	109.4	115.7		
38		Silo							
39		Aero							
40	48 1st Stage Engine			2.75	199.9	113.2	122.8		
41		Silo							
42		Aero							
43		Base							
44	49 Skirt			3.29	65.2	106.0	106.8		
45		Silo							
46		Aero							
47		Base							
48	MISSILE			15.72					
49		Silo							
50		Aero							
51		Base							
52		Jett							

*Boeing Section Stations (See Missile Diagram)
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2.2.1 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 62-190 (648)						REPORT NO. <u>D2-13947-2</u>		DATE <u>June 1, 1963</u>		
LINE NO.	STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.17	117.6	100.4	100.7		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.48	168.1	100.5	100.6		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			1.85	293.4	100.0	101.5		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			5.50					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
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2.2.2 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-191 (653)						REPORT NO. <u>D2-13947.2</u>		DATE <u>June 1, 1963</u>		
LINE	SEQ	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.41	117.5	100.4	100.6		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.86	168.2	100.3	100.4		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.01	293.2	100.0	100.9		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			5.28					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
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2:2.3 WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-192 (655)

REPORT NO. D2-13947-2
DATE June 1, 1963

LINE	ITEM	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			2.15	117.4	100.2	100.4		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.91	168.0	100.5	100.6		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.27	293.2	100.0	100.7		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.33					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
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2.2.4 WEIGHT AND BALANCE SUMMARY - AUTONETICS
 SEALANT INSTALLED AT AF PLANT 77.
 MISSILE S/N 63-162 (658)

REPORT NO. D2-13947-2
 DATE June 1, 1963

STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
					LONG.*	LAT.	VERT.	ROLL	PITCH
1	41 RV Spacer								
2		Silo							
3		Aero							
4	39 CTLI Section								
5		Silo							
6		Aero							
7	42 G&C Section								
8		Silo							
9		Aero							
10	44 3rd Stage Engine			1.62	117.5	100.3	100.5		
11		Silo							
12		Aero							
13		Base							
14	45 Interstage 2-3								
15	(Fwd)	Silo							
16		Aero							
17		Base							
18		Silo							
19	Jettisoned	Aero							
20	Portion	Base							
21		Jett							
22	45 Interstage 2-3								
23	(Aft)	Silo							
24		Aero							
25	46 2nd Stage Engine			1.74	169.3	100.7	100.9		
26		Silo							
27		Aero							
28		Base							
29	47 Interstage 1-2								
30	(Fwd)	Silo							
31		Aero							
32		Base							
33		Silo							
34	Jettisoned	Aero							
35	Portion	Base							
36		Jett							
37	47 Interstage 1-2								
38	(Aft)	Silo							
39		Aero							
40	48 1st Stage Engine			2.17	293.1	100.0	100.6		
41		Silo							
42		Aero							
43		Base							
44	49 Skirt								
45		Silo							
46		Aero							
47		Base							
48	MISSILE			5.53					
49		Silo							
50		Aero							
51		Base							
52		Jett							

* Boeing Section Stations (See Missile Diagram).
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**2.2.5 WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-193 (660)**

REPORT NO. D2-13947-2

DATE June 1, 1963

NO	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10 ⁻³	
					LONG.*	LAT.	VERT.	ROLL	PITCH
1	41 RV Spacer								
2		Silo							
3		Aero							
4	39 CTLI Section								
5		Silo							
6		Aero							
7	42 G&C Section								
8		Silo							
9		Aero							
10	44 3rd Stage Engine			1.93	117.5	100.3	100.5		
11		Silo							
12		Aero							
13		Base							
14	45 Interstage 2-3								
15	(Fwd)	Silo							
16		Aero							
17		Base							
18		Silo							
19	Jettisoned	Aero							
20	Portion	Base							
21		Jett							
22	45 Interstage 2-3								
23	(Aft)	Silo							
24		Aero							
25	46 2nd Stage Engine			1.82	168.7	100.9	101.1		
26		Silo							
27		Aero							
28		Base							
29	47 Interstage 1-2								
30	(Fwd)	Silo							
31		Aero							
32		Base							
33		Silo							
34	Jettisoned	Aero							
35	Portion	Base							
36		Jett							
37	47 Interstage 1-2								
38	(Aft)	Silo							
39		Aero							
40	48 1st Stage Engine			1.57	293.3	100.0	101.3		
41		Silo							
42		Aero							
43		Base							
44	49 Skirt								
45		Silo							
46		Aero							
47		Base							
48	MISSILE			5.32					
49		Silo							
50		Aero							
51		Base							
52		Jett							

* Boeing Section Stations (See Missile Diagram).
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2.2.6 WEIGHT AND BALANCE SUMMARY - AUTONETICS SEALANT INSTALLED AT AF PLANT 77. MISSILE S/N 63-194 (662)						REPORT NO. <u>D2-13947-2</u>		DATE <u>June 1, 1963</u>		
3 11 12	33 34 35	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.54	117.5	100.3	100.5		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			1.86	167.9	100.2	100.2		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.43	293.2	100.0	101.0		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			5.88					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boosing Section Stations (See Missile Diagram).
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2.2.7 WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-195 (667)

REPORT NO. **D2-13947.2**
 DATE **June 1, 1963**

		DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine			1.77	117.3	100.2	100.3		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3								
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.00	168.4	101.0	101.3		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.39	293.1	100.0	101.2		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.16					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
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22.8 WEIGHT AND BALANCE SUMMARY - AUTONETICS
SEALANT INSTALLED AT AF PLANT 77.
MISSILE S/N 63-196 (669)

REPORT NO. D2-13947-2
DATE June 1, 1963

3 1 1	3 2	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section								
8			Silo							
9			Aero							
10	44	3rd Stage Engine								
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			2.10	117.4	100.2	100.4		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett							
22	45	Interstage 2-3								
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			2.40	168.1	100.5	100.7		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2								
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett							
37	47	Interstage 1-2								
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			2.30	293.9	100.0	101.1		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt								
45			Silo							
46			Aero							
47			Base							
48		MISSILE			6.80					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram).
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3.0 BOEING CHANGES				REPORT NO. <u>D2-13947-1</u>			
MISSILE S/N <u>648-669</u>				DATE <u>June 1, 1963</u>			
The following changes were made on the Boeing Components at Air Force Plant 77: These changes were not reported in D2-13946- X.							
MISSILE SECTION	ITEM AFFECTED	PART NO.	CHANGE NO.	WEIGHT CHANGE	HORIZ. C.G.	LAT. C.G.	VERT. C.G.
	<p>NOTE: Raceway sealing was not accomplished on CTLJ missile 63-182 (658) at Plant 77 per ECP 540.</p> <p>(See applicable foot note in Section 5.0 D2-13946-X)</p>						

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4.1 CONFIGURATION SUMMARY		REPORT NO.	D2-13947-2
MISSILE S/N 63-190 (648)		DATE	June 1, 1963
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0019
Flight Control Unit	Stage 3	25302-102	AFB0013
Motor	Stage 3	01A00063-005	0032008
Heat Deflector Support	Stage 3	25-36379-1	0000919
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000202
Angular Accelerometer Unit	Stage 2	25170-102	AAW0164
Battery Assembly	Stage 2	66603-107	AAV0332
Cable Assembly-Electrical	Stage 2	25305-102	AFD0013
Flight Control Unit	Stage 2	25300-102	AFA0014
Motor	Stage 2	366978-49	0022008
Heat Deflector Support	Stage 2	25-36378-1	0000198
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000199
Battery Assembly	Stage 1	66603-107	AAV0351
Cable Assembly-Electrical	Stage 1	25304-102	AFC0007
Flight Control Unit	Stage 1	25301-102	AEZ0020
Motor	Stage 1	U32300-11	0012006
Heat Deflector Support	Stage 1	25-36377-1	0000196
Skirt Assembly	Stage 1	25-36080-1	0000200

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4.2 CONFIGURATION SUMMARY		REPORT NO.	D2-13947-2
MISSILE S/N 63-191 (653)		DATE	June 1, 1963
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFEO023
Flight Control Unit	Stage 3	25302-102	AFB0017
Motor	Stage 3	01A00063-005	0032007
Heat Deflector Support	Stage 3	25-36379-1	0000197
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000198
Angular Accelerometer Unit	Stage 2	25170-102	AAM0159
Battery Assembly	Stage 2	66603-107	AAV0304
Cable Assembly-Electrical	Stage 2	25305-102	AFDO014
Flight Control Unit	Stage 2	25300-102	AFAO011
Motor	Stage 2	366978-49	0022007
Heat Deflector Support	Stage 2	25-36378-1	0000194
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000211
Battery Assembly	Stage 1	66603-107	AAV0329
Cable Assembly-Electrical	Stage 1	25304-102	AFCO019
Flight Control Unit	Stage 1	25301-102	AEZ0009
Motor	Stage 1	U32300-11	0012008
Heat Deflector Support	Stage 1	25-36377-1	0000198
Skirt Assembly	Stage 1	25-36080-1	0000192

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4.3 CONFIGURATION SUMMARY		REPORT NO.	D2-13947-2
MISSILE S/N 63-192 (655)		DATE	June 1, 1963
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0017
Flight Control Unit	Stage 3	25302-102	AFB0016
Motor	Stage 3	01A00063-005	0032012
Heat Deflector Support	Stage 3	25-36379-1	0000199
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000192
Angular Accelerometer Unit	Stage 2	25170-102	AAM0170
Battery Assembly	Stage 2	66603-107	AAV0348
Cable Assembly-Electrical	Stage 2	25305-102	AFD0012
Flight Control Unit	Stage 2	25300-102	AFA0015
Motor	Stage 2	366978-49	0022006
Heat Deflector Support	Stage 2	25-36378-1	0000199
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000212
Battery Assembly	Stage 1	66603-107	AAV0361
Cable Assembly-Electrical	Stage 1	25304-102	APC0006
Flight Control Unit	Stage 1	25301-102	AEZ0018
Motor	Stage 1	U32300-11	0012009
Heat Deflector Support	Stage 1	25-36377-1	0000194
Skirt Assembly	Stage 1	25-36080-1	0000195

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4.4 CONFIGURATION SUMMARY MISSILE S/N <u>63-182 (658)</u>		REPORT NO. <u>DA-13947-2</u> DATE <u>June 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0085
Flight Control Unit	Stage 3	25302-102	AFB0009
Motor	Stage 3	01A00063-005	0032013
Heat Deflector Support	Stage 3	25-36379-1	0000195
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000195
Angular Accelerometer Unit	Stage 2	25170-102	AAW0158
Battery Assembly	Stage 2	66603-107	AAV0384
Cable Assembly-Electrical	Stage 2	25305-102	AFD0015
Flight Control Unit	Stage 2	25300-102	AFAD0021
Motor	Stage 2	366978-59	0022017
Heat Deflector Support	Stage 2	25-36378-1	0000197
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000202
Battery Assembly	Stage 1	66603-107	AAV0331
Cable Assembly-Electrical	Stage 1	25304-102	AFB0014
Flight Control Unit	Stage 1	25301-102	AZ0016
Motor	Stage 1	U32300-11	0012010
Heat Deflector Support	Stage 1	25-36377-1	0000202
Skirt Assembly	Stage 1	25-36080-1	0000193

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4.5 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-2</u>	
MISSILE S/N <u>63-193 (660)</u>		DATE <u>June 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0015
Flight Control Unit	Stage 3	25302-102	AFB0010
Motor	Stage 3	01A00063-005	0032011
Heat Deflector Support	Stage 3	25-36379-1	0000200
Interstage Assembly-Insulated	Stage 2-3	25-36183-1	0000200
Angular Accelerometer Unit	Stage 2	25170-102	AAW0172
Battery Assembly	Stage 2	66603-107	AAV0388
Cable Assembly-Electrical	Stage 2	25305-102	AFD0016
Flight Control Unit	Stage 2	25300-102	AFA0022
Motor	Stage 2	366978-59	0022018
Heat Deflector Support	Stage 2	25-36378-1	0000201
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000200
Battery Assembly	Stage 1	66603-107	AAV0280
Cable Assembly-Electrical	Stage 1	25304-102	AFD0017
Flight Control Unit	Stage 1	25301-102	AEZ0021
Motor	Stage 1	V32300-11	0012011
Heat Deflector Support	Stage 1	25-36377-1	0000199
Skirt Assembly	Stage 1	25-36080-1	0000197

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4.6 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-2</u>	
MISSILE S/N <u>63-194 (662)</u>		DATE <u>June 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0010
Flight Control Unit	Stage 3	25302-102	AFB0019
Motor	Stage 3	01A80063-005	0032010
Heat Deflector Support	Stage 3	25-36379-1	0000201
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000204
Angular Accelerometer Unit	Stage 2	25170-102	AAW0118
Battery Assembly	Stage 2	66603-107	AAV0376
Cable Assembly-Electrical	Stage 2	25305-102	AFD0017
Flight Control Unit	Stage 2	25300-102	APA0016
Motor	Stage 2	366978-59	0022022
Heat Deflector Support	Stage 2	25-36378-1	0000204
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000189
Battery Assembly	Stage 1	66603-107	AAV0389
Cable Assembly-Electrical	Stage 1	25304-102	AFC0015
Flight Control Unit	Stage 1	25301-102	AEZ0023
Motor	Stage 1	U32300-11	0012014
Heat Deflector Support	Stage 1	25-36377-1	0000200
Skirt Assembly	Stage 1	25-36080-1	0000356

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4.7 CONFIGURATION SUMMARY		REPORT NO. <u>D2-13947-2</u>	
MISSILE S/N <u>63-195 (667)</u>		DATE <u>June 1, 1963</u>	
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25306-102	AFB0007
Flight Control Unit	Stage 3	25302-102	AFB0026
Motor	Stage 3	01A00063-005	0032009
Heat Deflector Support	Stage 3	25-36379-1	0000918
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000199
Angular Accelerometer Unit	Stage 2	25170-102	AAW0189
Battery Assembly	Stage 2	66603-107	AAV0299
Cable Assembly-Electrical	Stage 2	25305-102	AFD0019
Flight Control Unit	Stage 2	25300-102	APA0010
Motor	Stage 2	366978-99	0022015
Heat Deflector Support	Stage 2	25-36378-1	0000203
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000197
Battery Assembly	Stage 1	66603-107	AAV0387
Cable Assembly-Electrical	Stage 1	25304-102	AFC0013
Flight Control Unit	Stage 1	25301-102	AEL0022
Motor	Stage 1	U32300-11	0012013
Heat Deflector Support	Stage 1	25-36377-1	0000212
Skirt Assembly	Stage 1	25-36080-1	0000206

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4.8 CONFIGURATION SUMMARY		REPORT NO.	D2-13947-2
MISSILE S/N 63-196 (669)		DATE	June 1, 1963
COMPONENT		PART NO.	SERIAL NO.
Cable Assembly-Electrical	Stage 3	25386-102	AFEO018
Flight Control Unit	Stage 3	25382-102	AFEO018
Motor	Stage 3	01A00063-005	0032020
Heat Deflector Support	Stage 3	25-36379-1	0000204
Interstage Assembly-Insulated	Stage 2-3	25-36103-1	0000213
Angular Accelerometer Unit	Stage 2	25170-102	AAM0182
Battery Assembly	Stage 2	66603-107	AAV0371
Cable Assembly-Electrical	Stage 2	25305-102	AFD0018
Flight Control Unit	Stage 2	25380-102	AFAO017
Motor	Stage 2	36978-99	0022021
Heat Deflector Support	Stage 2	25-36378-1	0000205
Interstage Assembly-Insulated	Stage 1-2	25-36101-1	0000198
Battery Assembly	Stage 1	66603-107	AAVC374
Cable Assembly-Electrical	Stage 1	25304-102	AFG0021
Flight Control Unit	Stage 1	25301-102	AEZ0024
Motor	Stage 1	U32300-11	0012012
Heat Deflector Support	Stage 1	25-36377-1	0000197
Skirt Assembly	Stage 1	25-36080-1	0000211

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